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WPI Acc No: 2000-639786/200062

Moisture protected keyboard has elastic foil to which keys are attached and deflect to establish contact

Patent Assignee: CHICONY ELECTRONICS CO LTD (CHIC-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20009377	U1	20000817	DE 2000U2009377	U	20000525	200062 B

Priority Applications (No Type Date): DE 2000U2009377 U 20000525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 20009377	U1	20	H01H-013/702	

Abstract (Basic): DE 20009377 U1

NOVELTY - The keyboard has a top foil of elastic material (31) that has a matrix of cells to which are fixed hard key elements (33). The foil sits on top of a thin sheet (20) that has conductive tracks. The operation of the keys causes a deflection of the foil, and contact is established.

USE - For keyboards for laptop computers

ADVANTAGE - Provides protection against moisture.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective exploded view of the keyboard arrangement.

Elastic foil (3)

Contact sheet (20)

Keyboard foil (31)

Key elements (33)

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⑯ BUNDESREPUBLIK
DEUTSCHLAND



DEUTSCHES
PATENT- UND
MARKENAMT

⑯ Gebrauchsmusterschrift
⑯ DE 200 09 377 U 1

⑯ Int. Cl. 7:
H 01 H 13/702

DE 200 09 377 U 1

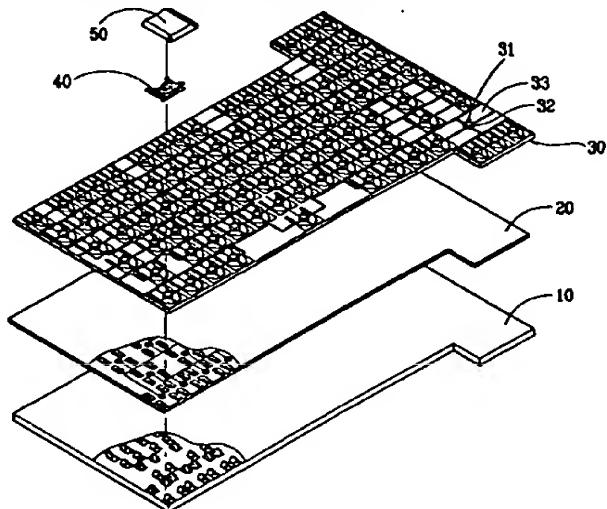
⑯ Aktenzeichen: 200 09 377.0
⑯ Anmeldetag: 25. 5. 2000
⑯ Eintragungstag: 17. 8. 2000
⑯ Bekanntmachung im Patentblatt: 21. 9. 2000

⑯ Inhaber:
Chicony Electronics Co., Ltd., Taipei/T'ai-pei, TW

⑯ Vertreter:
Viering, Jentschura & Partner, 80538 München

⑯ Elastischer Bewegungskontaktkörper zur leichten Montage an eine feuchtigkeitsgeschützte Tastatur

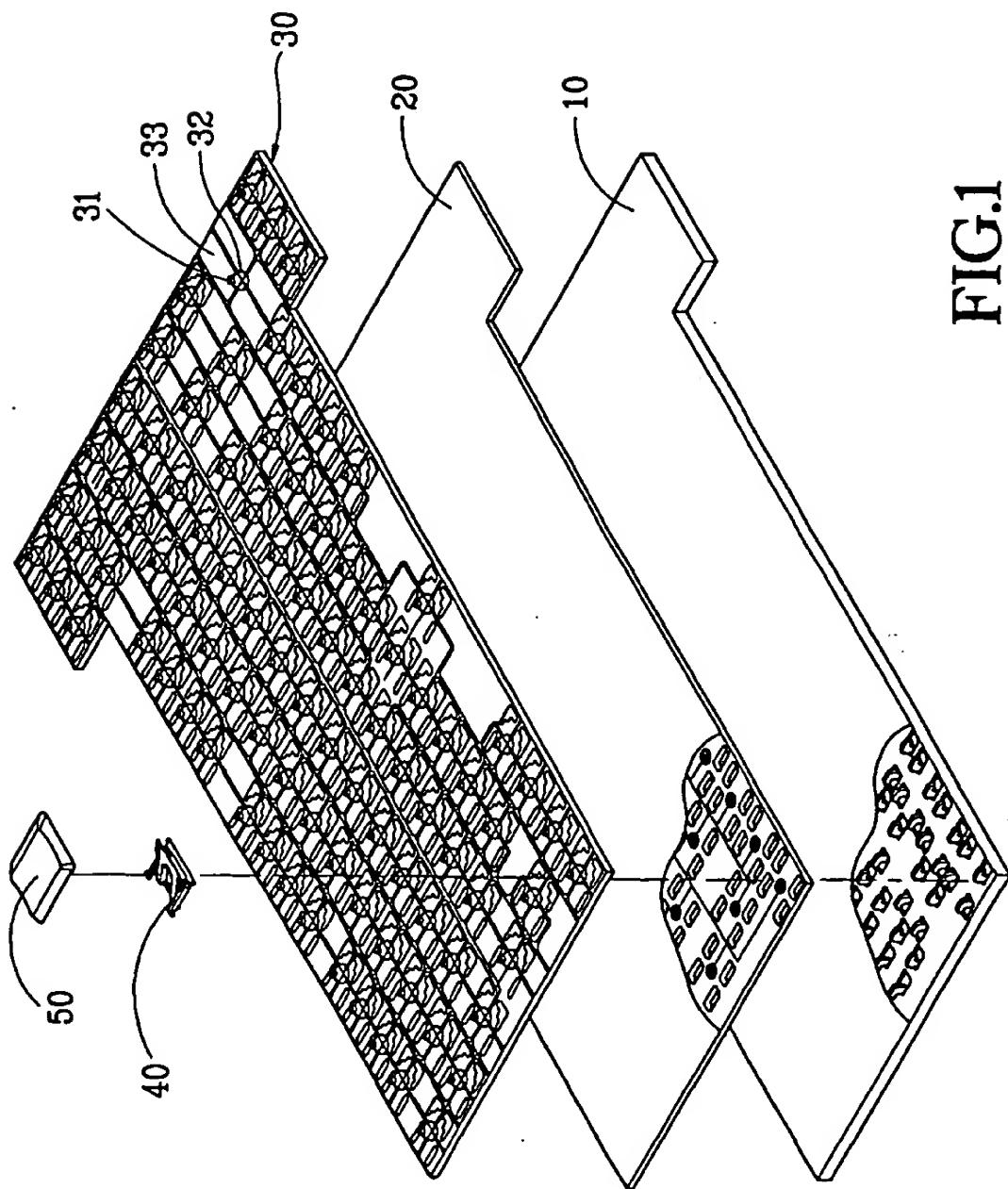
⑯ Elastischer Bewegungskontaktkörper (30) zur leichten Montage an eine feuchtigkeitsgeschützte Tastatur, aufweisend:
eine Mehrzahl von elastischen Elementen (31), wobei jedes elastische Element (31) wie eine auf den Kopf gestellte Schale ausgestaltet ist und über einer elektrisch leitenden dünnen Schicht (20) und unter einer Tastenkappe (50) angeordnet ist, so dass ein Druckbereich (35) des elastischen Elements (31) mittels der Tastenkappe (50) gedrückt wird, um mit der leitenden dünnen Schicht (20) in Kontakt zu kommen, und
ein dünnes hartes Element (33), an das jedes der elastischen Elemente (31) gekuppelt ist, so dass das dünne harte Element (33) Befestigungsstellen zum Befestigen jedes elastischen Elements (31) aufweist, die der Tastenkappe (50) entsprechen, und somit kann die Positionierung jedes elastischen Elements (31) gewährleistet werden, wenn das dünne harte Element (33) montiert ist.



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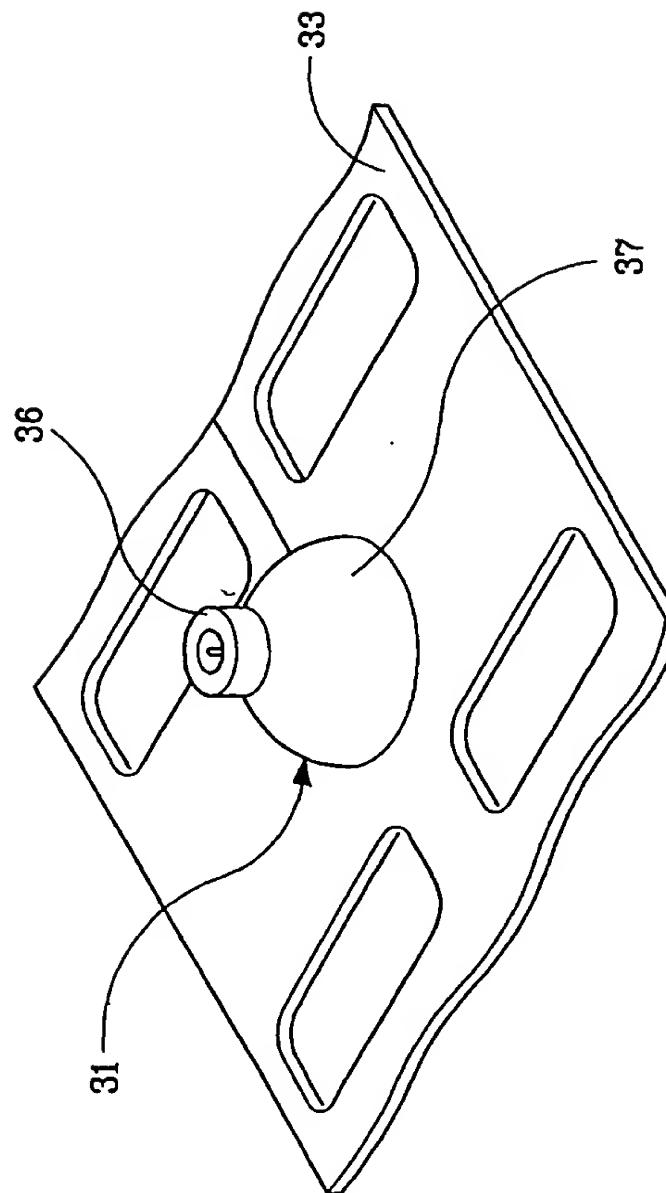


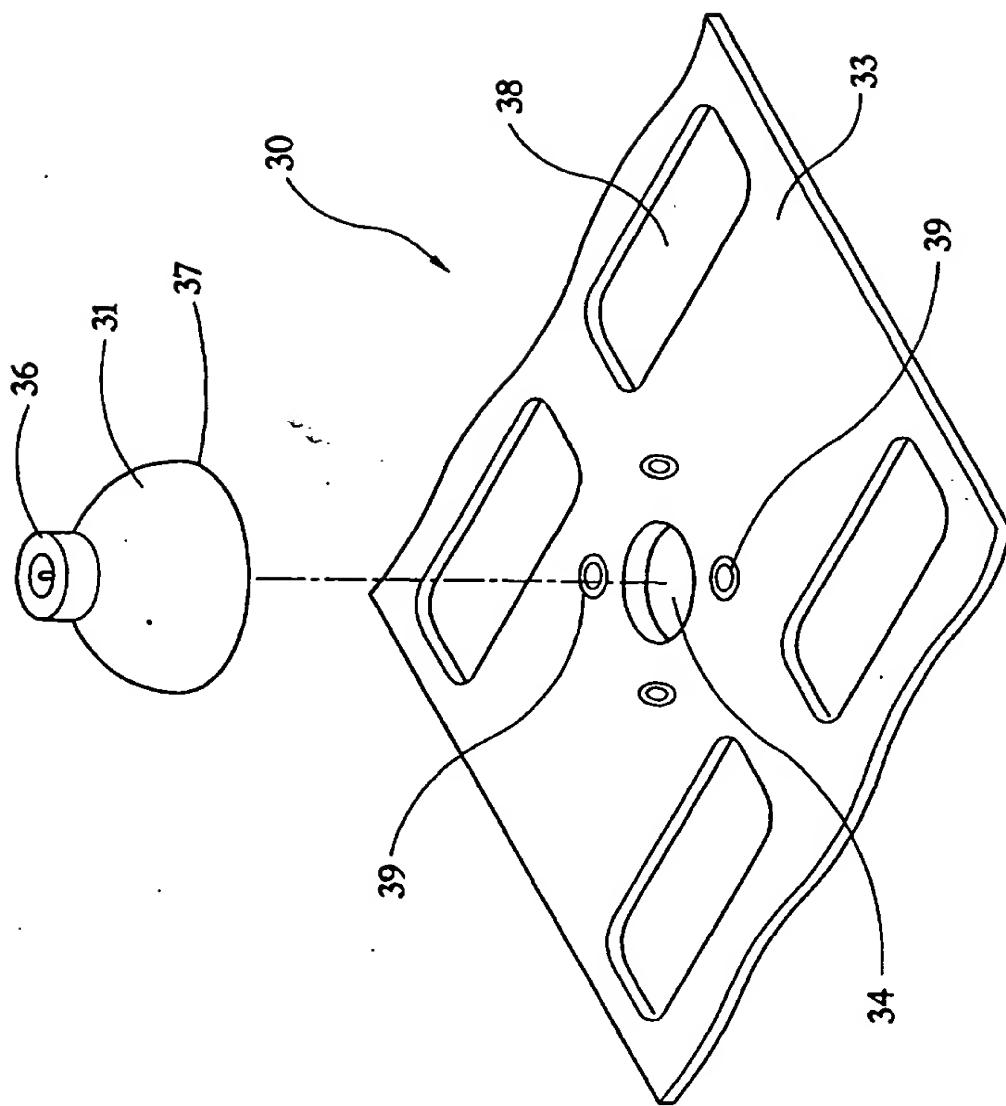
FIG.2

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FIG.3



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FIG.4A

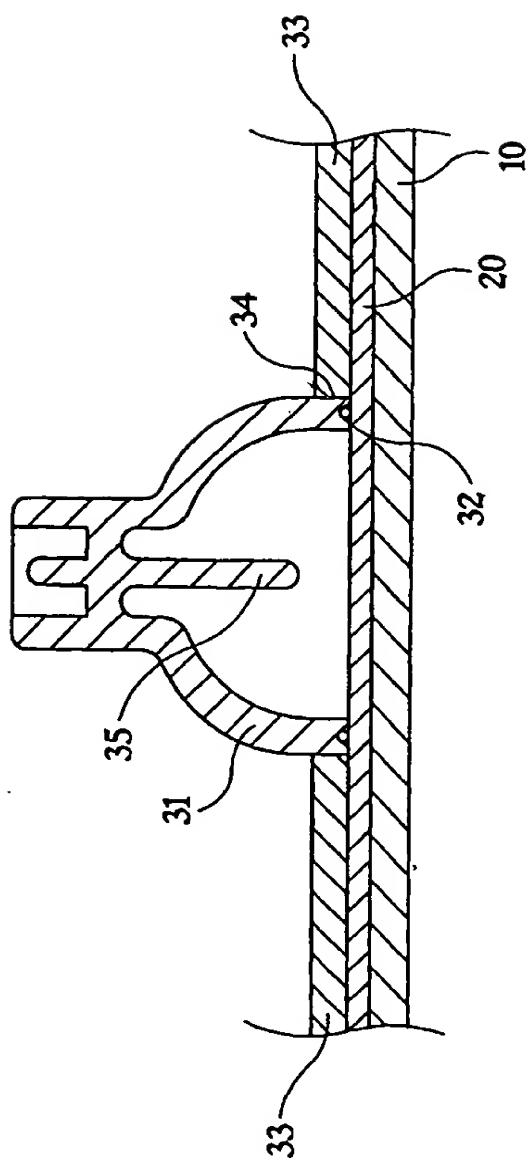
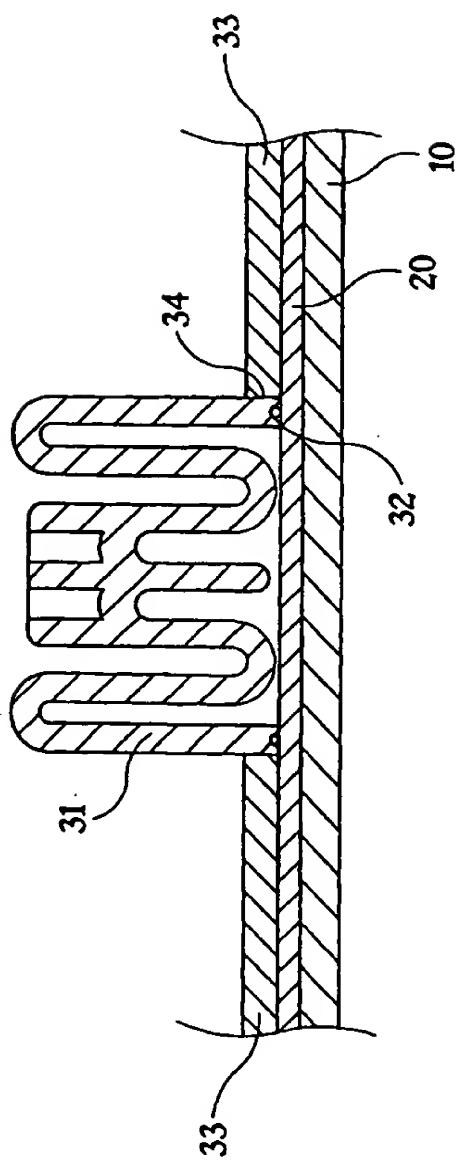


FIG.4B



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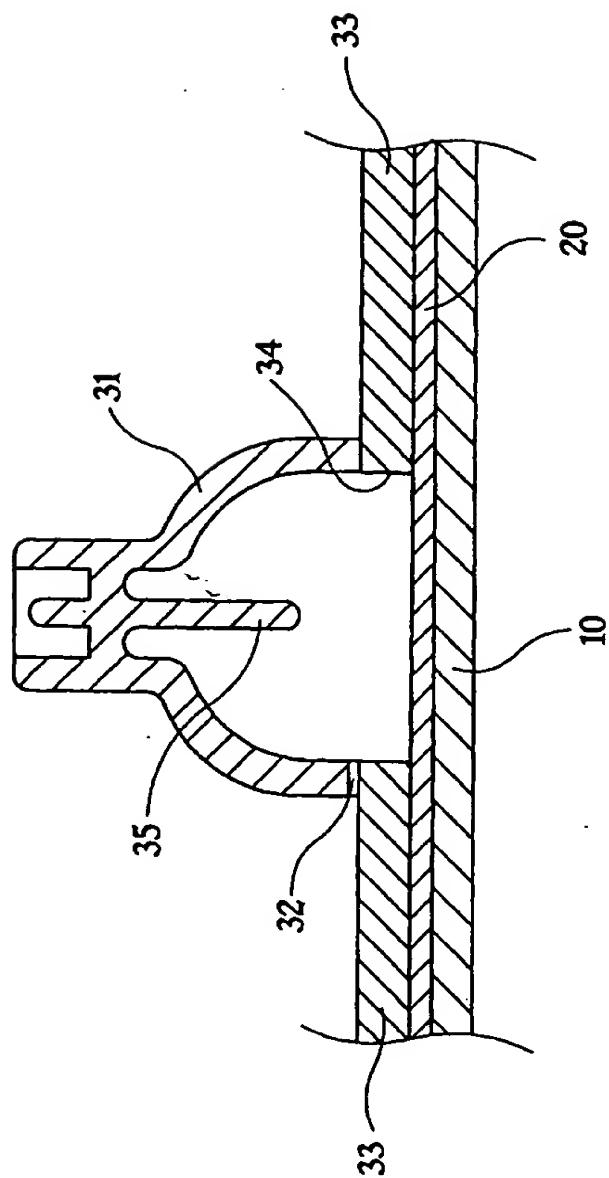


FIG.5

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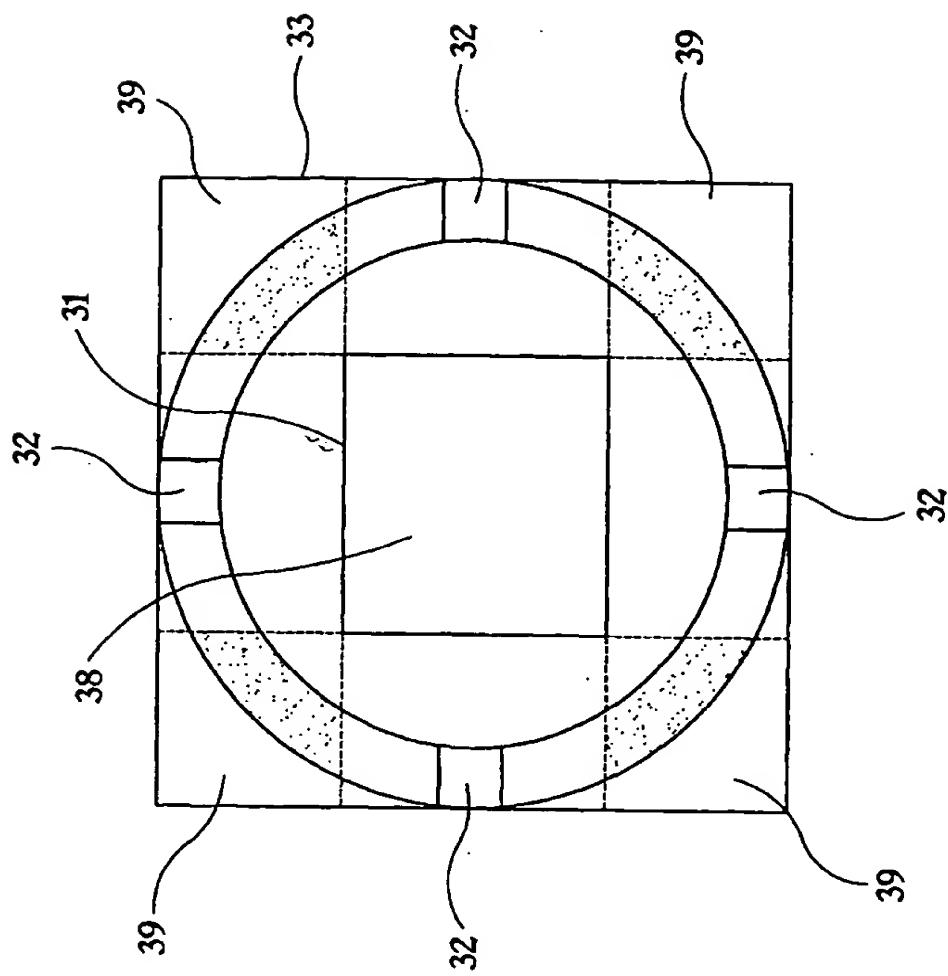


FIG.6

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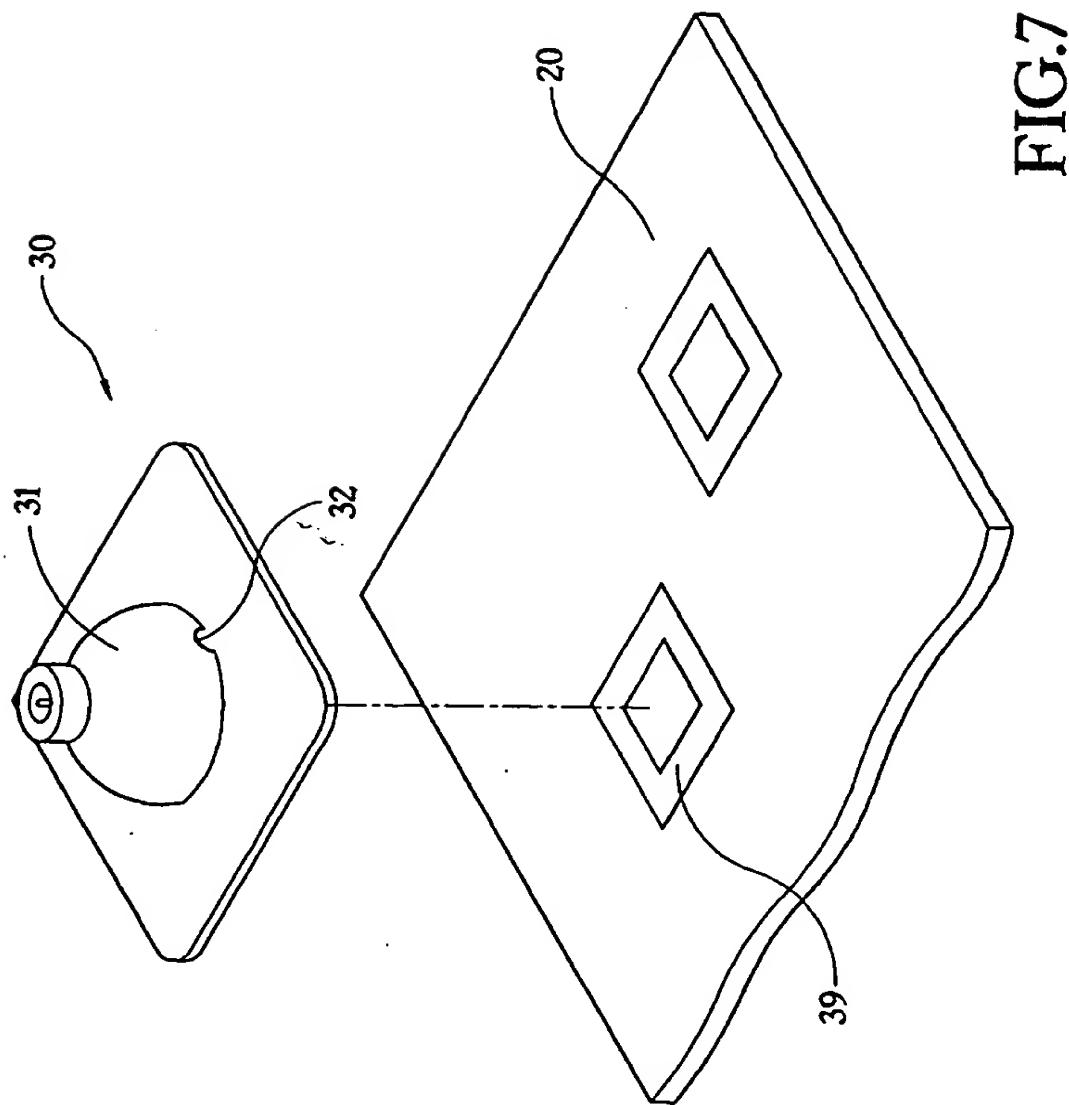


FIG.7

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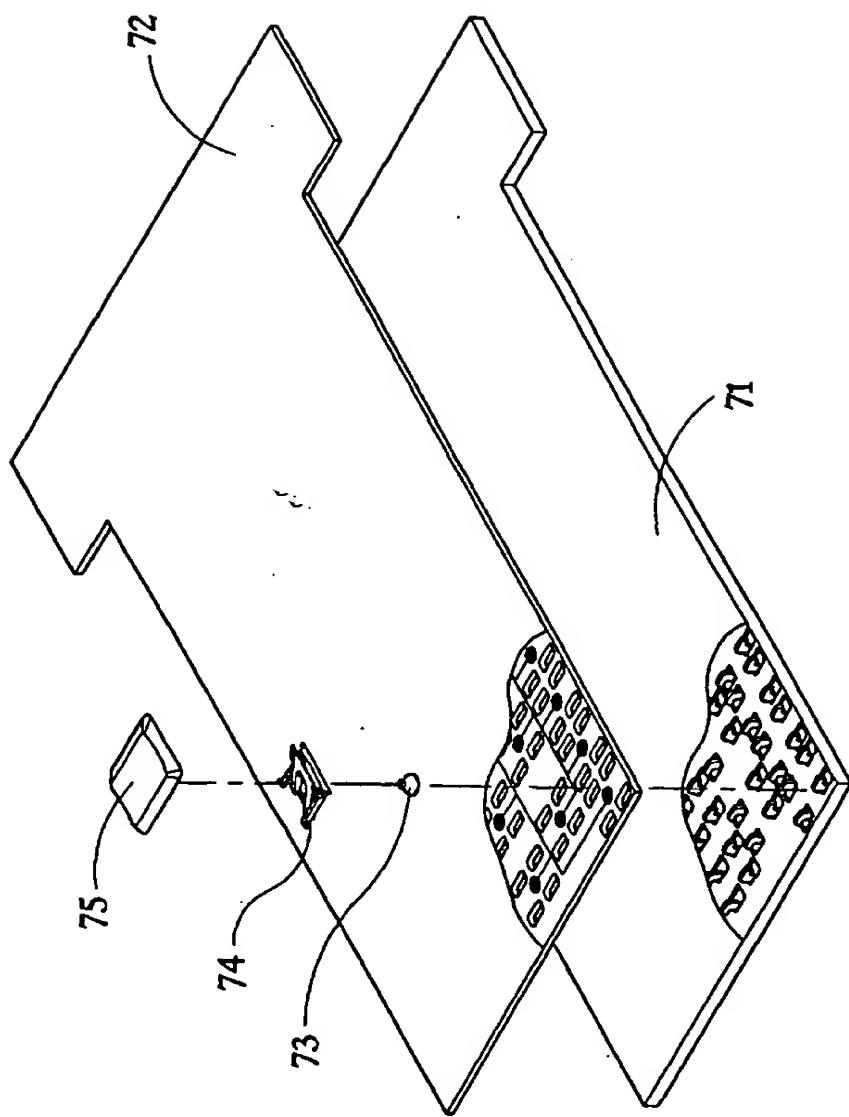


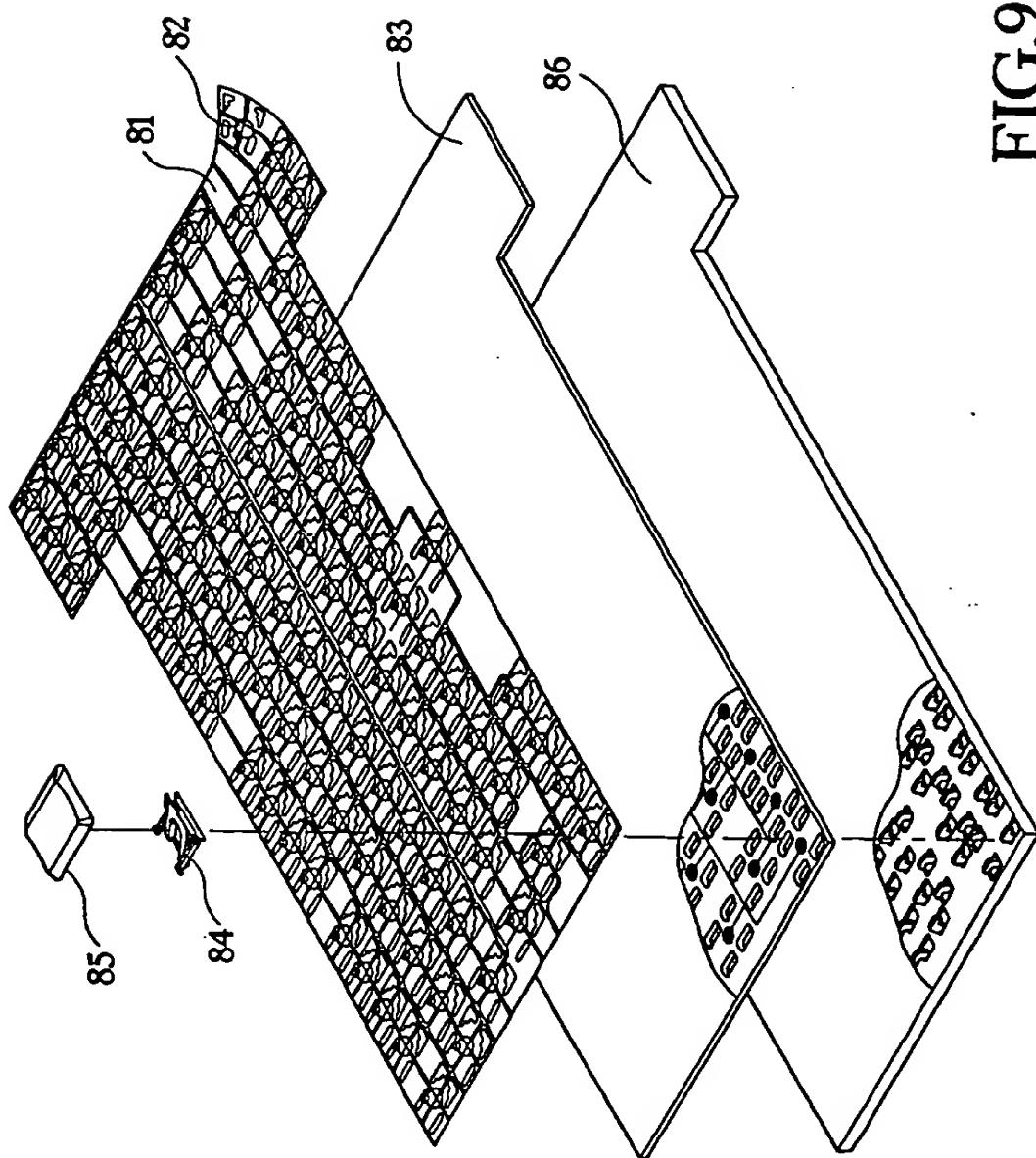
FIG.8

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FIG.9



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